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Instruction manual

Oscillating Spindle Sander



MODEL 121

To learn more about Porter-Cable
visit our website at:

<http://www.porter-cable.com>

PORTER-CABLE
PROFESSIONAL POWER TOOLS

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IMPORTANT

Please make certain that the person who is
to use this equipment carefully reads and
understands these instructions before
starting operations.


The Model and Serial No. plate is located on the main
housing of the tool. Record these numbers in the
spaces below and retain for future reference.

Model No. _____

Type _____

Serial No. _____


Part No. 899604 - 03-08-02

 **WARNING: SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES** contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

GENERAL SAFETY RULES

 **WARNING! READ AND UNDERSTAND ALL INSTRUCTIONS.** Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

WORK AREA

1. **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

1. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
2. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
3. **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
5. **When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

PERSONAL SAFETY

1. **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.

2. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

3. Avoid accidental starting. Be sure switch is OFF before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch ON invites accidents.

4. Remove adjusting keys or wrenches before turning the tool ON. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

5. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enable better control of the tool in unexpected situations.

6. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOLS USE AND CARE

1. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

2. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

3. Do not use tool if switch does not turn it ON or OFF. A tool that cannot be controlled with the switch is dangerous and must be repaired.

4. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

5. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

6. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.

7. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.


8. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

SERVICE





1. Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.





2. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES AND SYMBOLS


- 1. Hold tool by insulated gripping surfaces when performing an operation where the sanding tool may contact hidden wiring or its own cord.** Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
- 2. Keep hands and body parts away from rotating spindle.** Contact with rotating spindle can cause severe cuts and abrasions.
- 3. Use proper safety equipment.** Wear safety goggles to protect your eyes, wear hearing protection to protect your ears, and wear a protective mask to minimize breathing in the fine dust created while sanding.
- 4. Sanding of lead-based paint is not recommended.** Lead-based paint should only be removed by a professional.
- 5. Always keep the base of the sander in contact with a secure workpiece** to prevent loss of control.
- 6. Do not operate Oscillating Sander without all guards and covers** securely in place.
- 7. Some wood contains preservatives which can be toxic.** Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, any safety information available from your material supplier.
- 8.  WARNING:** There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Technical Service Manager
Porter-Cable Corporation
4825 Highway 45 North
Jackson, TN 38305

SYMBOL	DEFINITION
V	volts
A	amperes
Hz	hertz
W	watts
kW	kilowatts
μ F	microfarads
l	liters
kg	kilograms
N/cm ²	newtons per square centimeter
Pa	pascals
h	hours
min	minutes
s	seconds
	alternating current
3 	three-phase alternating current
3N 	three-phase alternating current with neutral
	direct current

n_0	.....	no load
	.....	alternating or direct current
	.....	Class II Construction
	.....	splash-proof construction
	.....	watertight construction
.../min	.....	revolutions or reciprocation per minute

ADDITIONAL SAFETY RULES FOR PAINT REMOVAL

 **WARNING:** Extreme care should be taken when removing paint. The peelings, residue, and vapors of paint may contain lead, which is poisonous. Exposure to even low levels of lead can cause irreversible brain and nervous system damage; young and unborn children are particularly vulnerable.

Before beginning any paint removal process you should determine whether the paint you are removing contains lead. This can be done by your local health department or by a professional who uses a paint analyzer to check for lead.

LEAD-BASED PAINT SHOULD ONLY BE REMOVED BY A PROFESSIONAL.

Persons removing paint should follow these guidelines:

- 1. KEEP THE WORK AREA WELL VENTILATED.** Open the windows and put an exhaust fan in one of them. Be sure the fan is moving air from inside to outside.
- 2. REMOVE OR COVER** any carpets, rugs, furniture, clothing, cooking utensils and air ducts.
- 3. PLACE DROP CLOTHS** in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats.
- 4. WORK IN ONE ROOM AT A TIME.** Furnishings should be removed or placed in the center of the room and covered. Work areas should be sealed off from the rest of the dwelling by sealing doorways with drop cloths.
- 5. CHILDREN, PREGNANT OR POTENTIALLY PREGNANT** women and nursing mothers should not be present in the work area until the work is done and all cleanup is complete.
- 6. WEAR A DUST RESPIRATOR** or a dual filter (dust and fume) respirator mask which has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSH), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beards and facial hair may keep the masks from sealing properly. Change filters often. DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.
- 7. KEEP FOOD AND DRINK** out of the work area. Wash hands, arms, and face and rinse mouth before eating or drinking. Do not smoke or chew gum or tobacco in the work area.
- 8. CLEAN UP ALL REMOVED PAINT** and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surfaces where paint or dust is clinging. DO NOT SWEEP, DRY DUST OR VACUUM. Use a high phosphate detergent or trisodium (TSP) to wash and mop areas.

9. AT THE END OF EACH WORK SESSION put the paint chips and debris in a double plastic bag, close it with tape or twist ties and dispose of properly.

10. REMOVE PROTECTIVE CLOTHING and work shoes in the work area to avoid carrying dust into the rest of the dwelling. Wash work clothes separately. Wipe shoes off with a wet rag that is then washed with the work clothes. Wash hair and body thoroughly with soap and water.

REPLACEMENT PARTS

When servicing use only identical replacement parts.

MOTOR

Many Porter-Cable tools will operate on either D.C., or single phase 25 to 60 cycle A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Several models, however, are designed for A.C. current only. Refer to the specification plate on your tool for proper voltage and current rating.

CAUTION: Do not operate your tool on a current on which the voltage is not within correct limits. Do not operate tools rated A.C. only on D.C. current. To do so may seriously damage the tool.

EXTENSION CORD SELECTION

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found in this section. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

If an extension cord is to be used outdoors it must be marked with the suffix W-A or W following the cord type designation. For example – SJTW-A to indicate it is acceptable for outdoor use.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS

		Length of Cord in Feet									
		115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
		230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
Nameplate Ampere Rating	0-2	18	18	18	16	16	14	14	12	12	12
	2-3	18	18	16	14	14	12	12	10	10	10
	3-4	18	18	16	14	12	12	10	10	8	8
	4-5	18	18	14	12	12	10	10	8	8	8
	5-6	18	16	14	12	10	10	8	8	6	6
	6-8	18	16	12	10	10	8	6	6	4	4
	8-10	18	14	12	10	8	8	6	6	4	4
	10-12	16	14	10	8	8	6	6	4	4	2
	12-14	16	12	10	8	6	6	6	4	4	2
	14-16	16	12	10	8	6	6	4	4	2	2
	16-18	14	12	8	8	6	4	4	2	2	2
	18-20	14	12	8	6	6	4	4	2	2	2

FUNCTIONAL DESCRIPTION

FOREWORD

The Model 121 hand held Oscillating Sander offers the user the convenience and portability that other sanders cannot provide. The Model 121 has many applications such as solid surface sink cutouts, template work, internal curved surfaces, and large work pieces to name just a few.

INSTALLING THE QUICK RELEASE DRUM SYSTEM

CAUTION: DISCONNECT TOOL FROM POWER SOURCE.

The quick release drum system is easy to assemble and convenient to use. Fig. 1.

Note: When installing a $\frac{1}{2}$ " sanding sleeve onto the shaft, do not use the rubber drum (B) or washers (A) Fig. 1.

1. Place washer (A) onto the spindle shaft.
2. Place rubber drum (B) onto the spindle shaft.
3. Place second washer (A) over the bolt hole opening.
4. Thread $\frac{5}{16}$ -24" locking bolt (C) onto the shaft, but do not tighten.
5. Slide sanding sleeve (D) over the rubber drum (B); (make sure the sanding sleeve (D) is flush with the rubber drum (B).)
6. Now tighten the $\frac{5}{16}$ -24" locking bolt (C) onto the shaft, to hold the sanding sleeve (D) in place.

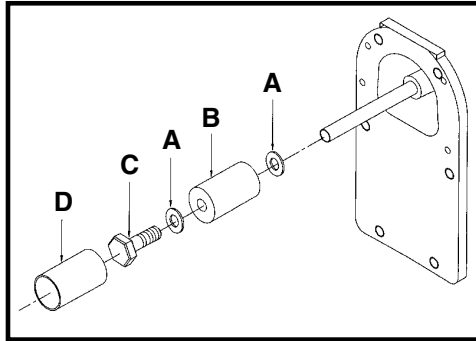


Fig. 1

THE DUST COLLECTION NOZZLE

The Model 121 sander can be operated with or without the dust collection nozzle. The dust collection nozzle can be attached to the 121 sander as shown in Fig. 2 using the two knob screws provided. A standard 1" vacuum hose can be attached to the dust nozzle to provide a means for connecting the machine to your vacuum cleaner or dust collection system.



Fig. 2

TO START AND STOP THE 121 OSCILLATING SANDER

1. Make sure the switch is in the off position, and the power circuit voltage is the same as the voltage shown on the specification plate on the sander. Connect machine to power circuit.
2. Hold the machine as shown in Fig. 3, with the sander base in contact with a stable and secure workpiece, and turn the machine on with the power switch (A) Fig. 4.
3. To turn off machine, move the switch (A) Fig. 4, to the off position.



Fig. 3

VARIABLE SPEED CONTROL

The Model 121 Oscillating Sander is equipped with a variable speed control dial (B) Fig. 4. The variable speed control can be set on 1-6. The speed ranges from 2400-3600 RPM, setting 1 is the slowest at 2400 RPM, and setting 6 is the fastest at 3600 RPM. The oscillating spindle varies with the speed; setting 1 is 2400 RPM with 38 oscillations per minute, setting 6 is 3600 RPM with 60 oscillations per minute.

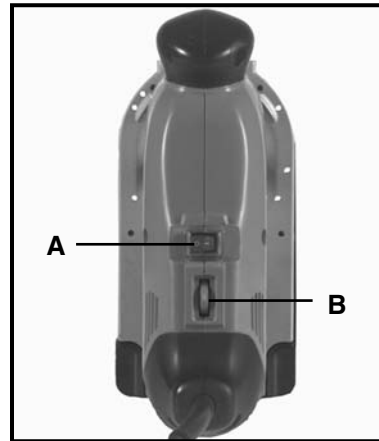


Fig. 4

EDGE GUIDE INSTALLATION

CAUTION: DISCONNECT TOOL FROM POWER SOURCE.

NOTE: The edge guide should only be used with the 2" rubber drum & sanding sleeve.

The edge guide is used for sanding straight edges for the purpose of uniformity. The edge guide allows the operator to remove a selected amount of material.

Align the holes, in the base plate, (A) and (B) Fig. 5, with the holes in the edge guide, (C) and (D) Fig. 5, and insert the two screws, and tighten securely.

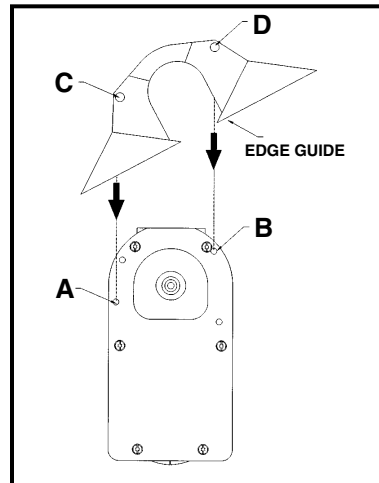


Fig. 5

Once the edge guide is in place, the feed guides (A) and (B) Fig. 6 will need to be adjusted so that they are parallel to the sanding drum. Loosen the in-feed and out-feed guides, (A) and (B), with a $\frac{3}{16}$ " allen wrench. Place a straight edge on the sanding drum (C) and tap the in-feed and out-feed guides (A) and (B), until the feed guides and the sanding drum (C) are resting on the straight edge Fig. 6, and are parallel to each other. Tighten the $\frac{3}{16}$ " bolt to hold the out-feed guide (B) in place. The in-feed guide (A) should be set to the amount of material that the operator wants to remove.

CAUTION: DO NOT TRY TO REMOVE AN EXCESSIVE AMOUNT OF MATERIAL WITH THE TOOL, FOR IT MAY CAUSE DAMAGE TO THE RUBBER SANDING DRUM.

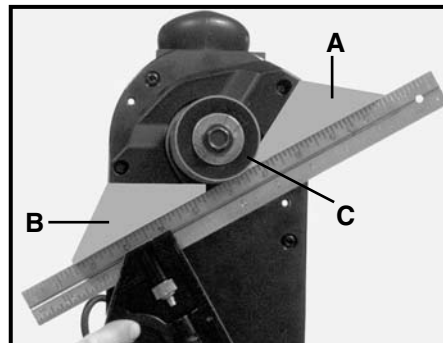


Fig. 6

NOTE: Check guide adjustment after changing sanding drums.

EDGE GUIDE OPERATION

When using the edge guide always start sanding from an edge, so that even sanding will be produced. Start with the front feed guide against the material to be sanded and gradually feed the tool into the surface to be sanded. Fig. 7.



Fig. 7

MAINTENANCE

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. Remove buildup of grime resulting from working with green or sappy wood. ALL PLASTIC PARTS SHOULD BE CLEANED WITH SOFT CLOTHS. NEVER USE SOLVENTS WHEN CLEANING PLASTIC PARTS.

CAUTION: Wear safety glasses while using compressed air.

LUBRICATION

This tool has been lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. No further lubrication is necessary.

BRUSH INSPECTION

At approximately 100 hours of use, take or send your tool to your nearest Authorized Porter-Cable Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, if required; reassembled with new brushes; and performance tested.

Any loss of power before the above maintenance check may indicate the need for immediate servicing of your tool. **DO NOT CONTINUE TO OPERATE TOOL UNDER THIS CONDITION.** If proper operating voltage is present, return your tool to the Service Station for immediate service.

FAILURE TO START

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also, check for blown fuses or open circuit breakers in the line.

SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should **ONLY** be performed by either an **AUTHORIZED PORTER-CABLE SERVICE STATION** or a **PORTER-CABLE SERVICE CENTER**. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

ACCESSORIES

A complete line of accessories is available from your Porter-Cable • Delta Supplier, Porter-Cable • Delta Factory Service Centers, and Porter-Cable Authorized Service Stations. Please visit our Web Site www.porter-cable.com for a catalog or for the name of your nearest supplier.



WARNING: Since accessories other than those offered by Porter-Cable • Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Porter-Cable • Delta recommended accessories should be used with this product.

PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, Jackson, Tennessee 38305; Attention: Product Service. THE FOREGOING OBLIGATION IS PORTER-CABLE'S SOLE LIABILITY UNDER THIS OR ANY IMPLIED WARRANTY AND UNDER NO CIRCUMSTANCES SHALL PORTER-CABLE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

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(Locations où vous trouverez les pièces de rechange nécessaires ainsi qu'un service d'entretien)

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Authorized Service Stations are located in many large cities. Telephone **800-487-8665** or **731-541-6042** for assistance locating one. Parts and accessories for Porter-Cable • Delta products should be obtained by contacting any Porter-Cable • Delta Distributor, Authorized Service Center, or Porter-Cable • Delta Factory Service Center. If you do not have access to any of these, call **888-848-5175** and you will be directed to the nearest Porter-Cable • Delta Factory Service Center. Las Estaciones de Servicio Autorizadas están ubicadas en muchas grandes ciudades. Llame al **800-487-8665** ó al **731-541-6042** para obtener asistencia a fin de localizar una. Las piezas y los accesorios para los productos Porter-Cable • Delta deben obtenerse poniéndose en contacto con cualquier distribuidor Porter-Cable • Delta, Centro de Servicio Autorizado o Centro de Servicio de Fábrica Porter-Cable • Delta. Si no tiene acceso a ninguna de estas opciones, llame al **888-848-5175** y le dirigirán al Centro de Servicio de Fábrica Porter-Cable • Delta más cercano. Des centres de service agréés sont situés dans beaucoup de grandes villes. Appelez au **800-487-8665** ou au **731-541-6042** pour obtenir de l'aide pour en repérer un. Pour obtenir des pièces et accessoires pour les produits Porter-Cable • Delta, s'adresser à tout distributeur Porter-Cable • Delta, centre de service agréé ou centre de service d'usine Porter-Cable • Delta. Si vous n'avez accès à aucun de ces centres, appeler le **888-848-5175** et on vous dirigera vers le centre de service d'usine Porter-Cable • Delta le plus proche.

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